



ORIGINAL ARTICLE



USE OF MODERN FAMILY PLANNING METHODS AMONG WOMEN OF SOUTH-WESTERN NIGERIA: A SNAPSHOT.

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ABSTRACT

Introduction: The use of modern family planning methods equips couple and single women of reproductive age with the tool to decide when they want pregnancy, required number of children and the spacing between childbirths. This has enormous benefits for the women, families and the society at large.

Methods: This study was a secondary analysis of the 2013 Nigerian Demographic and Health Survey (NDHS). Only the women of reproductive age (15 to 49 years) who reside in the South-Western geo-political zone of Nigeria were included in the study. Data was analysed using Stata 12.1 software and summarized using proportions. Logistic regression was used to determine the factors that affect the use of modern family planning methods. Results were presented as tables.

Results: A total of 3,882 women participated in the study. The commonest age group was the 25 to 29 years age group (28.8%). The mean age was 30.7±6.2 years. Modern family planning methods were being used by 23.47% of the respondents. Majority (91.32%) of the respondents were married.

Lagos state had the highest proportion of women using modern methods (28.98%). Women who had a minimum of secondary education were 1.2 times more likely than those with only primary education to use modern family planning methods (CI=1.035983-1.454942, p = 0.018). Older women (≥25 years) were 1.4 times more likely to use modern family planning than the younger women (CI=1.171135-1.872016, p=0.001). Urban women were twice more likely than the rural women to use modern family planning methods (CI=1.674996-2.447385, p=<0.001).

Conclusion: In conclusion, the present study has demonstrated that the likelihood of using modern family planning among women in the South-Western geo-political zone of Nigeria is increased by the following variables: having at least secondary education; being 25 years old or more and urban residence. We recommend the consideration of these factors in the planning of interventions to increase uptake of modern family methods in Nigeria.

Keywords: Modern family planning, South-Western Nigerian Women.

INTRODUCTION

Family planning services are defined as educational, comprehensive medical or social activities which enable individuals, including minors, to determine freely the number and spacing of their children and to select the means by which this may be achieved.¹ According to Merriam-Webster dictionary, Family planning can be defined as planning intended to determine the number and spacing of one's children through birth control.² Family planning enables a couple to decide when they want to achieve pregnancy and also when to avoid pregnancy. It also helps a couple to decide the number of children they want to have and the spacing between each conception.

Unintended pregnancy is a major public health problem that affects not only the individuals directly involved but also the society.³ This is because a couple may be overburdened with the number of children they have to provide for, thereby falling deeper into poverty. Poverty affects all health indices directly or indirectly. Unintended pregnancy can lead to the consideration of abortion. In a country like Nigeria where abortion is not legal, one may resort to illegal abortion in the hands of unqualified health personnel which may result in a myriad of problems. These are all preventable with the use of modern family planning methods. Nigeria is currently the most populated country in Africa and the 7th most populated country in the

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World.⁴ Currently, Nigeria's population is growing at a rate of 2.6% annually according to the World Bank.⁵ Among the ten most populated countries in the world, Nigeria's population is growing the most rapidly. Consequently, the population of Nigeria is projected to surpass that of the United States by 2050, at which point Nigeria would become the third largest country in the world.⁶ The effects of uncontrolled population growth are enormous. Some of the effects are depletion of resources, human congestion, weather modification, high unemployment rate and environmental degradation.

The 2013 Nigeria Demographic and Health Survey reported that 85 percent of women and 95 percent of men knew about a contraceptive method.⁷ Overall, 15 percent of currently married women in Nigeria were using a contraceptive method, an increase of only 2 percentage points since the 2003 NDHS.⁷ The overall contraceptive prevalence among women in Nigeria was 16 percent.⁷ The South West zone had the highest proportion of women currently using a family planning method (38 %), followed by the South East (29 %). The lowest proportion of married women using a family planning method was in the North East (3 percent). Among the states, Lagos (South-West) and Kwara (North-Central) states had the highest percentages of women using any method (48 percent and 40 percent, respectively).

Although the South-West had the highest proportion of women using contraceptives, it is good to disaggregate the data and look at the different states and some determinants of use of modern family planning methods. The aim of this study was to narrow into the South-Western geo-political zone of Nigeria using data generated by the 2013 Nigeria Demographic and Health Study (NDHS) and explore some possible determinants of use of modern family planning methods.

METHODOLOGY

The Demographic and Health Surveys (DHSs) are nationally-representative household surveys that provide data for a wide range of monitoring and impact evaluation indicators in the areas of population, health, and nutrition for low and middle income countries.⁸ This study used Nigeria Demographic and Health Survey 2013 dataset. Ethical approval was obtained from the ethical committee of Chukwuemeka Odumegwu Ojukwu

University Teaching Hospital, Awka. Only females of reproductive age (15 to 49 years) from the South-Western geo-political zone of the country were included in the study. The women were 3,882 in number. Data was analysed using Stata data analysis software Version 12.1.

Some basic characteristics of the women were explored including: the State they reside, the age of the women, the highest educational level they attained, their place of residence (urban/rural), current method of family planning, current marital status.

Frequencies and percentages were displayed in tables. Binomial logistic regression was used to establish the determinants of use of modern family planning among the women. The dependent variable was the current family method of the women. This variable was originally grouped into four possible outcomes: No family planning method, traditional method, folkloric method and modern method. But for the purpose of this study, this variable was re-coded into only two possible outcomes: Modern family planning method and others. The independent variables were: educational level, the geo-political zone the women belong to, age of the women, place of residence (urban/rural) and marital status of the women. Some of the independent variables which had more than two categories were re-coded into only two categories. The educational level was re-coded into two categories: minimum of secondary school and primary school or less. Age was re-coded into two categories: 25 years or more and 24 years or less. Marital status was re-coded into two categories: currently married and others. The p-value was set at 0.05.

RESULTS

Table 1: Distribution of the respondents according to States in the South-west geo-political zone of Nigeria.

State of residence	Frequency	Percentage
Oyo	661	17.03
Osun	558	14.37
Ekiti	530	13.65
Ondo	648	16.69
Lagos	949	24.45
Ogun	536	13.81
Total	3,882	100.0

Table 1 shows the distribution of the respondents according to their states. Lagos State had the highest percentage of respondents (24.45%) while Ekiti State had the lowest (13.65%).

Table 2: Age distribution of the respondents (years)

Age group (years)	Frequency	Percentage
15-19	80	2.06
20-24	509	13.11
25-29	1117	28.77
30-34	1079	27.79
35-39	730	18.80
40-44	287	7.39
45-49	80	2.06
Total	3,882	100.00

Table 2 shows the age distribution of the respondents. The most common age group was the 25 to 29 years age group which made up 28.77% of all the respondents. The least represented age groups were the 15-19 years and the 45-49 years age groups (2.06%). The mean age was 30.7±6.2 years.

Table 3: Highest Educational level of the respondents

Highest Educational level	Frequency	Percentage
No formal education	427	11.00
Primary	962	24.78
Secondary	1879	48.40
Higher	614	15.82
Total	3882	100.00

Table 3 shows the respondents' highest level of education. Those that had no education made up 11.00% of the respondents. The commonest group was those who had secondary education(48.40%).

Table 4: Respondents' place of residence

Place of residence	Frequency	Percentage
Urban	2,677	68.96
Rural	1205	31.04
Total	3882	100.00

Table 4 shows the place of residence of the respondents. A greater proportion of the respondents are urban dwellers (68.96%).

Table 5: Current method of family planning used by the respondents

Method of family planning	Frequency	Percentage
No method	2,507	64.58
Folkloric method	51	1.31
Traditional method	413	10.64
Modern method	911	23.47
Total	3,882	100.00

Table 5 shows the current method of family planning the respondents were using. Modern method was being used by 23.47% of the respondents. More than half (64.58%) were not using any method.

Table 6: Respondents' current marital status

Current marital status	Frequency	Percentage
Never in union	89	2.29
Married	3545	91.32
Living with a partner	170	4.38
Widowed	23	0.59
Divorced	20	0.52
No longer living together/separated	35	0.90
Total	3882	100.00

Table 6 shows the marital status of the respondents. Majority (91.32%) of the respondents were married.

Table 7: Respondents' use of modern family planning method by state of residence

State	Family planning method		
	Frequency (%)		
	Modern method	Others	Total
Oyo	149 (22.54)	512 (77.46)	661 (100.00)
Osun	155 (27.78)	403 (72.22)	558 (100.00)
Ekiti	107 (20.19)	423 (79.81)	720 (100.00)
Ondo	108 (16.67)	540 (83.33)	648 (100.00)
Lagos	275 (28.98)	674 (71.02)	949 (100.00)
Ogun	117 (21.83)	419 (78.17)	536 (100.00)
Total	911 (23.47)	2,971 (76.53)	3,882 (100.00)

Table 7 shows the proportion of women in each state that use modernfamily planning methods. Lagos state had the highest proportion of women using modern methods (28.98%).

Table 8: Odds Ratio for Correlates of use of Modern Family planning Methods among the respondents

Variable	Use of modern method of family planning		p-value
	Odds ratio	95% confidence interval	
Education			
= Secondary school	1.228	1.035983 - 1.454942	0.018
= Primary school	1.000		
Age (years)			
= 25	1.481	1.171135 - 1.872016	0.001
= 24	1.000		
Residence			
Urban	2.025	1.674996 - 2.447385	<0.001
Rural	1.000		
Marital Status			
Married	1.036	0.7869863 - 1.364416	0.800
Others	1.000		

Table 8 shows the odds ratios for the predictors of use of modern family planning methods. The women who had at least secondary education were 1.2 times more likely than those who had less than secondary education to use modern family planning methods. Women who were 25 years or more were 1.4 times more likely than those who were less than 25 years to use modern family planning methods. The women who lived in urban areas were twice more likely to use modern family planning methods than those who lived in the rural areas. All the above were statistically significant. Marital status had no effect on the use of modern family planning methods.

DISCUSSION

The commonest state among the respondents was Lagos state (24.45%), while the least represented state was Ekiti State (13.65%). The commonest age group was the 25-29 years which made up 28.77% of all the respondents, while the least represented age groups were the 15-19 years (2.06%) and the 45-49 years (2.06%) age groups. Almost half (48.40%) of the women who participated in the present study had secondary education. Majority of the women (91.32%) were married, 4.38% were living with a partner, 0.59% were widowed, 2.29% were never in a union and 0.52% were divorced. Similarly a study in Egypt reported that the most common age group was the 20-29 years age group which made up 36.4% of the women studied.⁹ In Nnewi, Southeast Nigeria, majority (93.6%) of the women were also married.¹⁰ Similarly in Tanzania majority (92.2%) of the women were married.⁶ Also in India 95.7% of the women were married.¹¹ Majority of the women being married in the present study is expected because the average age of the women is 30.7±6.2 years and the median age at first marriage for

Nigerian women is 18.1 years.⁷

Among the women in this study 23.47% were using modern family planning methods. It has been reported that the South-West geo-political zone has the highest prevalence of use of modern family planning methods and that the national average was 9.68%.¹² Among Northern Nigerian women, only 5.33% use modern family planning methods.¹³ The great difference between the South-Western women and the Northern women may be because of their differences in education. While 89% of the South-Western women had formal education, only 34.1% of the Northern Nigerian women had formal education.¹³ A study among Nigerian women showed that those who had secondary education or more were 2.9 times more likely than those who had primary education or less to use modern family planning methods.¹²

An interesting finding in this study is that logistic regression analysis showed that women who had a minimum of secondary education were 1.2 times more likely than those with only primary education to use modern family planning methods (CI=1.035983-1.454942, p = 0.018). This agrees with the findings of other authors who have reported that education increases the likelihood of using modern family planning methods. A study in the Northwest and Northeast Nigeria reported a statistically significant association between education and use of modern family planning methods.¹⁴ In Bangladesh it was also reported that education increases the use of modern family planning methods.¹⁵ Similarly in Nepal, the practice of modern family planning methods was higher among the educated.¹⁶ In Namibia the educated women studied were 3 times more likely to use modern family planning methods than those who had no formal education.¹⁷ Ainsworth M et al demonstrated that schooling has a positive relationship with use of modern family planning in 14 Sub-Saharan countries even after controlling for many other variables.¹⁸ An educated woman is more likely to be aware of the availability of contraceptives. She is also more likely to understand how contraceptives work, believe in their efficacy, hence more likely to use modern contraceptives.

Another finding in our study is that the older women (≥25 years) were 1.4 times more likely to use modern family planning than the younger women

(CI=1.171135-1.872016, $p=0.001$). This may be because the older women are more likely to be independent minded and financially capable hence more able to procure modern contraceptives. In Bangladesh, age was also a determinant of use of modern family planning methods.¹² Similarly, Awadalla HI demonstrated that the older women in Egypt used modern family planning more than the younger women.⁹ It is also interesting to point out that the urban women were twice more likely than the rural women to use modern family planning methods (CI=1.674996-2.447385, $p<0.001$). This is similar to the finding of a study in Egypt which reported that urban women used modern family planning methods more than the rural women.⁹ Similarly, in North east and Northwest Nigeria, it was demonstrated that the urban women used modern family planning methods more than the rural women and the difference was statistically significant.¹⁴ This is maybe because women in the urban areas are more educated than their counterparts in the rural areas. It could also be because more health facilities exist in the urban areas, hence more access to modern family planning methods.

In conclusion, the present study has demonstrated that utilization of modern family planning methods in the south-western Nigeria is high (23.3%) when compared to national use. The likelihood of using modern family planning among the women is increased by the following variables: having at least secondary education; being 25 years old or more and urban residence. We therefore recommend the consideration of these factors in the planning of interventions to increase uptake of modern family methods in Nigeria. Measures should be taken to increase female literacy, as this will most likely lead to improved uptake of family planning among the respondents. Also resources should be channeled more to reaching the younger women and the women residing in the rural areas.

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